

RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number:	/0/084,643 <i>B</i>
Source:	OIRE,
Date Processed by STIC:	1/18/2003

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

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- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/084,643B

DATE: 07/18/2003

TIME: 15:55:25

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RAW SEQUENCE LISTING
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Output Set: N:\CRF4\07182003\J084643B.raw

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RAW SEQUENCE LISTING

DATE: 07/18/2003 TIME: 15:59:27 PATENT APPLICATION: US/10/084,643B

Input Set : E:\pt_SEQ.502.txt

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VERIFICATION SUMMARY

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PATENT APPLICATION: US/10/084,643B TIME: 15:59:49

DATE: 07/18/2003

Input Set : E:\pt SEQ.502.txt

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DATE: 07/18/2003

VERIFICATION SUMMARY

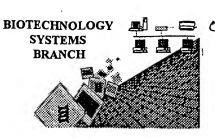
PATENT APPLICATION: US/10/084,643B TIME: 15:59:49

Input Set : E:\pt SEQ.502.txt

Output Set: N:\CRF4\07182003\J084643B.raw

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OHID



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/084,643A
Source:	GIPE
Date Processed by STIC:	5/7/2003
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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

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http://www.uspto.gov/web/offices/pac/checker

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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- 3. Hand Carry directly to:
 - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/084,643A

DATE: 05/07/2003

TIME: 14:43:54

Input Set : E:\pt SEQ.502

Output Set: N:\CRF4\05072003\J084643A.raw

6 <110> APPLICANT: Tang, Y. Tom 7 Asundi, Vinod 8 Drmanac, Radoje T. 11 <120> TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES 14 <130> FILE REFERENCE: 21272-502 16 <140> CURRENT APPLICATION NUMBER: 10/084,643A 17 <141> CURRENT FILING DATE: 2002-02-26 20 <150> PRIOR APPLICATION NUMBER: 09/989,660 21 <151> PRIOR FILING DATE: 2001-11-21 23 <150> PRIOR APPLICATION NUMBER: 10/014,487 24 <151> PRIOR FILING DATE: 2001-11-08 26 <150> PRIOR APPLICATION NUMBER: 09/952,981 27 <151> PRIOR FILING DATE: 2001-09-14 29 <150> PRIOR APPLICATION NUMBER: 09/922,279 30 <151> PRIOR FILING DATE: 2001-08-03 32 <150> PRIOR APPLICATION NUMBER: 09/905,059 33 <151> PRIOR FILING DATE: 2001-07-12 35 <150> PRIOR APPLICATION NUMBER: 09/898,888 36 <151> PRIOR FILING DATE: 2001-07-03 38 <150> PRIOR APPLICATION NUMBER: 09/919,002 39 <151> PRIOR FILING DATE: 2001-07-30 41 <150> PRIOR APPLICATION NUMBER: 09/770,160 42 <151> PRIOR FILING DATE: 2001-01-26 44 <150> PRIOR APPLICATION NUMBER: 09/649,167 45 <151> PRIOR FILING DATE: 2000-08-23 47 <150> PRIOR APPLICATION NUMBER: 09/574,454 48 <151> PRIOR FILING DATE: 2000-05-19 50 <150> PRIOR APPLICATION NUMBER: 09/577,409 51 <151> PRIOR FILING DATE: 2000-05-18 53 <150> PRIOR APPLICATION NUMBER: 09/577,408 54 <151> PRIOR FILING DATE: 2000-05-18 56 <150> PRIOR APPLICATION NUMBER: `09/560,875 57 <151> PRIOR FILING DATE: 2000-04-27 59 <150> PRIOR APPLICATION NUMBER: 09/552,317 60 <151> PRIOR FILING DATE: 2000-04-25 62 <150> PRIOR APPLICATION NUMBER: 09/552,929 63 <151> PRIOR FILING DATE: 2000-04-18 65 <150> PRIOR APPLICATION NUMBER: 09/540,217 66 <151> PRIOR FILING DATE: 2000-03-31 68 <150> PRIOR APPLICATION NUMBER: 09/519,705 69 <151> PRIOR FILING DATE: 2000-03-07 71 <150> PRIOR APPLICATION NUMBER: 09/515,126

Does Not Comply
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	3979364		agaacgggcg					360	micer
	3979365		aggccttctt					420	ocid
	3979366		agggctacga					480	dementer
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							780	use
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E>	4983769	ttagacacaa	agtcattttc	ttccaaaaaa	aaaiagctct	cataactaag	ttaatttagt	1140	\ ' 1.
	4983770		aattgatagt					1200	Timaly
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		<222> LOCATI				//			
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	5004853		tggagggcac					600	
	5004854	gagacgctgc	agcgcacgga	cgccccaaa	acgcatatga	ctcaccacgc	tgtctctgac	660	
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	5004856		atggggagga					780	
	5004857		ccttccagaa					840	
	5004858		atgtgcagca					900	
	5004859	tcttcccagc	ccaccatccc	catcgtgggc	atcattgctg	gcctggttct	ctttggagct	960	
	5004860	gtgatcactg	gagctgtggt	cgctgctgtg	atgtggagga	ggaagagctc	agatagaaaa	1020	

Input Set : E:\pt SEQ.502

Output Set: N:\CRF4\05072003\J084643A.raw E--> 5004861 1080 ggagggaget acteteagge tgeaageagt gacagtgeee agggetetga tgtgteteho E--> 5004862 mosaphensg teatggegee ecgaaccete gteetgetae teteggggge tetggeeetg 1140 5004863 acccagacet gggegggete teactecatg aggtatttet teacateegt gteeeggeee 1200 5004864 ggccgcgggg agccccgctt catcgcagtg ggctacgtgg acgacacgca gttcgtgcgg 1260 5004865 ttcgacagcg acgccgcgag ccagaggatg gagccqcqqq cqccqtqqat aqaqcaqqaq 1320 ggtccggagt attgggacgg ggagacacgg aaagtgaagg cccactcaca gactcaccga 5004866 1380 5004867 gtggacctgg ggaccctgcg cggctactac aaccagagcg aggccgqttc tcacaccqtc 1440 5004868 cagaggatgt atggctgcga cgtggggtcg gactggcqct tcctccqcqq qtaccaccaq 1500 5004869 tacgcctacg acggcaagga ttacatcgcc ctgaaagagg acctgcgctc ttggaccgcg 1560 5004870 geggacatgg cageteagae caccaageae aagtgggagg eggeecatga ggeggageag 1620 5004871 ttgagagcct acctggaggg cacgtgcgtg gagtggctcc gcagatacct ggagaacggg 1680 5004872 aaggagacgc tgcagcgcac ggacgcccc aaaacgcata tgactcacca cgctqtctct 1740 5004873 gaccatgaag ccaccctgag gtgctgggcc ctgagcttct accctgcgga gatcacactg 1800 acctggcagc gggatgggga ggaccagacc caggacacgg agctcgtgga gaccaggcct 5004874 1860 5004875 gcaggggatg gaaccttcca gaagtgggcg gctgtggtgg tgccttctgg acaggagcag 1920 5004876 agatacacct gccatgtgca gcatgagggt ttgcccaagc ccctcaccct gagatgggag 1980 5004877 ccgtcttccc agcccaccat ccccatcgtg ggcatcattg ctggcctggt tctctttgga 2040 5004878 gctgtgatca ctggagctgt ggtcgctgct gtgatgtgga ggaggaagag ctcagataga 2100 5004879 aaaggaggga getactetea ggetgeaage agtgaeagtg eeeagggete tgatgtett 2160 5004880 ctcacagett gtaaagtgtg agacagetge cttgtgtggg actgagagge aagagttgtt 2220 5004881 cctgcccttc cctttgtgac ttgaagaacc ctgactttgt ttctgcaaag gcacctgcat 2280 5004882 gtgtctgtgt tcgtgtaggc ataatgtgag gaggtgggga gaccacccca ccccatgtc 2340 5004883 caccatgacc ctc 2353 5005977 <210> SEQ ID NO: 149104 5005978 <211> LENGTH: 2615 5005979 <212> TYPE: DNA 5005980 <213> ORGANISM: Homo sapiens 5005982 <220> FEATURE: 5005983 <221> NAME/KEY: misc feature 5005984 <222> LOCATION: (1)...(2615) 5005985 <223> OTHER INFORMATION: n = a, t, c or g 5005991 <400> SEQUENCE: 149104 5005992 atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct qqccctqacc 60 5005993 cagacetggg cgggetecea etecatgagg tatttetaca ettecgtgte eeggeeegge 120 5005994 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180 5005995 gacagegaeg cegegageea gaggatggag cegegggege egtggataga geaggagggg 240 5005996 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagtg 300 5005997 gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360 5005998 atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420 5005999 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480 5006000 gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540 5006001 agagectace tggagggeae gtgcgtggag tggcteegea gatacetgga gaaegggaag 600 5006002 gagacqctqc aqcqcacqqa cqcccccaaa acqcatatqa ctcaccacqc tqtctctqac 660 5006003 catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720 5006004 tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac caggcctgca 780 5006005 ggggatggaa ccttccagaa gtgggtggct gtggtggtgc cttctgqaca ggaqcaqaqa 840 5006006 tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag atgggagccg 900 5006007 tetteccage ceaceatece categtggge atcattgetg geetggttet etttggaget 960

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5006008

1020

Input Set : E:\pt_SEQ.502

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5006012		cacatccgtg					1260	
5006013		cgacacgcag					1320	
5006014		gccgtggata					1380	
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5006019		ggcccgttgg					1680	
5006020		cagatacctg					1740	
5006021	3 2 2 3	gacccaccac					1800	
5006022		ccctgcggag					1860	
5006023	222	gctcgtggag					1920	
5006024	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	gccttctgga					1980	
5006025		cctcaccctg					2040	
5006026		tggcctggtt					2100	
5006027	_	gaggaagagc					2160	
5006028		ctctgaccat					2220	
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5006030	22 2	gcctgaaggg					2340	
5006031		gcagagatac					2400	
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5006033		tggagctgtg					2520	
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	<211> LENGTI							
	<212> TYPE:							
	<213> ORGAN		npiens					
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	<221> NAME/E		eature		2. 12			
5006090	<222> LOCAT	ION: (1)	(3104)		/.			
	<223> OTHER			cora				
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5006108		gccagcaatg					660	
5006109		gaggggcttg					720	
5006110		aggcaccacc					780	
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RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/084,643A**DATE: 05/07/2003
TIME: 14:47:54

Input Set : E:\pt SEQ.502

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     5006113
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     5006114 tctccaggta tctgcggagc cactccacgc acgtgccctc caggtaggct ctcaactgct
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     5006115 ccgcctcatg ggccgcctcc cacttgtgct tggtggtctg agctgccatg tccgccgcgg
                                                                                 1080
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                                                                                 1140
              ggtacccgcg gaggaagcgc cagtccgacc ccacgtcgca gccatacatc ctctggacgg
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                                                                                 1320
     5006120
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E--> 5006123 ccagagccc cgagagtagc aggacgaggg ttcggggggc catgacsneil Atsomonetc
                                                                                 1560
     5006124
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                                                                                 1620
     5006125 tetteaagte acaaagggaa gggeaggaae aactettgee teteagteee acaeaaggea
                                                                                 1680
     5006126 gctgtctcac actttacaag ctgtgagaga cacatcagag ccctgggcac tgtcactgct
                                                                                 1740
     5006127 tgcagcctga gagtagctcc ctccttttct atctgagctc ttcctcctcc acatcacagc
                                                                                 1800
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                                                                                 1860
     5006129
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     5006135 gcacgtgccc tccaggtagg ctctcaactg ctccgccaca tgggccqcct cccacttqtq
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     5006136 cttggtggtc tgagctgcca tgtccgccgc ggtccaagag cgcaggtcct ctttcagggc
                                                                                 2340
     5006137
             gatgtaatcc ttgccgtcgt aggcgtactg gtggtacccg cggaggaagc gccagtccga
                                                                                 2400
     5006138 ccccacgtcg cagccataca tectetggac ggtgtgagaa ccggcctcgc tetggttgta
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     5006139 gtagccgcgc agggtcccca ggtccactcg gtcaatctgt gagtgggcct tcactttccg
                                                                                 2520
     5006140 tgtctccccg tcccaatact ccggaccctc ctgctctatc cacggcgccc gcggctccat
                                                                                 2580
     5006141 cctctggctc gcggcgtcgt tcagggcgat gtaatccttg ccgtcgtagg cgtactggtg
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                                                                                 2700
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                                                                                2820
     5006145 ctctatccac ggcgcccgcg gctccatcct ctggctcgcg gcgtcgctgt cgaaccgcac
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     2940
     5006147
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     5006148 cagggccccc gagagtagca ggacgagggt tcggggcgcc atgacggcca tcctcggcgt
                                                                                 3060
     5006149 ctggggagaa tctgagtccc ggtgggtgcg tgcggacttt agaa
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     5033063 <210> SEQ ID NO: 149925
     5033064 <211> LENGTH: 1166
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     5033066 <213> ORGANISM: Homo sapiens
                                                      P.13
     5033068 <220> FEATURE:
     5033069 <221> NAME/KEY: misc feature
     5033070 <222> LOCATION: (1)...(1166)
     5033071 <223> OTHER INFORMATION: n = a,t,c or q
     5033077 <400> SEQUENCE: 149925
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/084,643A

DATE: 05/07/2003 TIME: 14:47:56

Input Set : E:\pt_SEQ.502

Output Set: N:\CRF4\05072003\J084643A.raw

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	5033081				gcatgttttt			240	
	5033082						accactctag	300	
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E>	5033085				agttagtgac			480	1:1
	5033086				gtgctgatga			540	many
	5033087	atatctgtga	aaatcaagat	tcgatctcca	gtaaactgaa	ggaatgctgt	gaaaaacctc	600	
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	5033092	ctgcagatcc	tcatgaatgc	tatgccaaag	tgttcgatga	atttaaacct	cttgtggaag	900	
	5033093	agcctcagaa	tttaatcaaa	caaaattgtg	agctttttga	gcagcttgga	gagtacaaat	960	
	5033094				agaaagtacc			1020	
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	5033096	agcaaaaaga	aatgccctgt	tgcagaaaaa	ctatctatcc	gtggtcctga	accagttatg	1140	
	5033097	tngtgtttgc	atgaaaaaaa	cnccgt				1166	

Use of a anc/or kea has been detected in the sequence Listing.

Review of the sequence of the

64) J

Use of n and 'or Xaa has been detected in the Sequence Listing.

Review the Sequence Listing to insure a corresponding explanation is momented in the <220> to <223> fields of each section.

VERIFICATION SUMMARY DATE: 05/07/2003 PATENT APPLICATION: US/10/084,643A TIME: 14:48:17

Input Set : E:\pt SEQ.502

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L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:120
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:660
M:341 Repeated in SeqNo=5
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:360
M:341 Repeated in SeqNo=12
L:477 M:341 W: (46) "n" or "Xaa" used, for SEO ID#:14 after pos.:0
M:341 Repeated in SeqNo=14
L:812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:420
L:839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:360
L:933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:2460
M:341 Repeated in SeqNo=23
L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:120
M:341 Repeated in SeqNo=25
L:1073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID\#:27 after pos.:540
M:341 Repeated in SeqNo=27
L:1149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:240
L:1200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:240
M:341 Repeated in SeqNo=31
L:1244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:1080
L:1322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:240
M:341 Repeated in SeqNo=35
L:1435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:360
L:1492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:540
L:1703 \text{ M}:341 \text{ W}: (46) \text{ "n" or "Xaa" used, for SEQ ID$#:49 after pos.:0}
M:341 Repeated in SeqNo=49
L:1765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
M:341 Repeated in SeqNo=51
L:1799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:360
M:341 Repeated in SeqNo=52
L:2071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
M:341 Repeated in SeqNo=61
L:2136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:360
L:2159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:120
M:341 Repeated in SeqNo=64
L:2184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
M:341 Repeated in SeqNo=65
L:2387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:360
M:341 Repeated in SeqNo=73
L:2710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:360
L:3035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0
M:341 Repeated in SeqNo=93
L:3062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0
M:341 Repeated in SeqNo=94
L:3179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:2160
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DATE: 05/07/2003

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/084,643A TIME: 14:48:17

Input Set : E:\pt SEQ.502

```
L:3516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0
L:3596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:420
L:2955329 M:254 E: No. of Bases conflict, LENGTH:Input:2220 Counted:2219 SEQ:90222
M:254 Repeated in SeqNo=90222
L:2955333 M:252 E: No. of Seq. differs, <211> LENGTH:Input:2401 Found:2400 SEQ:90222
L:3979361 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:4884736 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:4951754 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:4957275 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
L:4983769 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:5004861 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:5004862 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
L:5006009 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:5006010 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:5006123 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5
L:5033085 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:104 M:203 E: No. of Seq. differs, <160> Number Of Sequences: Input (158) Counted (158931)
```